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**United States Patent** [19][11] **Patent Number:** **5,339,700****Wright et al.**[45] **Date of Patent:** **Aug. 23, 1994**[54] **SAMPLE COLLECTOR**[75] Inventors: **Paul G. Wright, Pleasant Dale;**  
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5,036,001 7/1991 Gork et al. .... 73/864.24[73] Assignee: **Isco, Inc., Lincoln, Nebr.***Primary Examiner—Robert Raevis*  
*Attorney, Agent, or Firm—Vincent L. Carney*[21] Appl. No.: **808,530**[22] Filed: **Dec. 16, 1991**[51] Int. Cl.<sup>5</sup> ..... **G01N 1/14**[52] U.S. Cl. .... **73/864.34**[58] **Field of Search** ..... 73/863.02, 863.03, 863.83,  
73/864.31, 864.34, 864.35, 864.91; 53/451, 551,  
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4,852,413 8/1989 Niskin et al. .... 73/864.63[57] **ABSTRACT**

To draw samples of liquid for later analysis, liquid is periodically pumped from the inlet port in coordination with initiating movement of a web of packaging material, folding the package material and sealing it to form a pouch. The liquid is pumped from the inlet port into the pouch and the pouch is sealed. The pumping means and the equipment for drawing the web are controlled so that the container corresponds in internal volume to the volume of liquid pumped into the container prior to sealing the container and identification is printed onto the web becomes part of the package for the liquid.

**20 Claims, 12 Drawing Sheets**